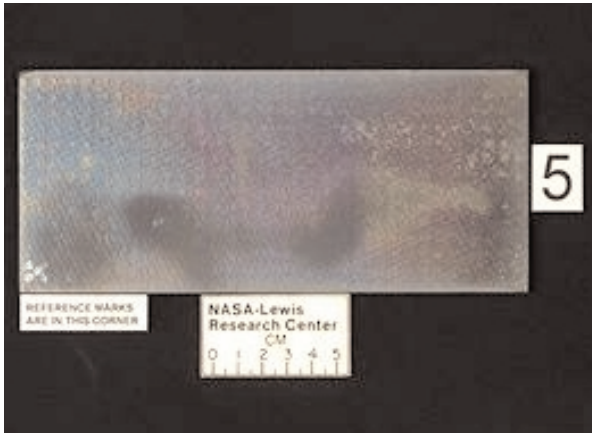
NASA GLENN SUCCESS STORY

BP and NASA Glenn Cooking With Syngas



COMMERCIAL APPLICATION

BP Chemicals is currently involved with a commercially funded joint venture to design and build a pilot scale syngas conversion reactor which utilizes a proprietary ceramic membrane developed by BP Chemicals. The Great Lakes Industrial Technology Center (GLITeC) identified mechanical testing expertise at NASA. The testing provided a baseline for comparison of candidate ceramic membrane materials under consideration for high temperature, syngas reactor tube applications.

NASA APPLICATION/INVOLVEMENT

The NASA Glenn Life Prediction Branch is a world leader in the development of software and know-how related to the analysis, testing and design of advanced ceramic materials for high temperature aerospace engine applications.

SOCIAL/ECONOMIC BENEFIT

The information and collaboration with NASA allowed BP to further the development of this important new product for syngas manufacture. This work in characterizing BP's ceramic materials helped the company at a time that its own expertise in characterization was severely limited. Innovations made to convert huge reserves of natural gas around the world into liquid fuels will have significant economic impact on world energy markets.

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